

**ABSTRACT**

The invention described herein provides novel human Kunitz-type protease inhibitors; nucleic acids encoding such inhibitors; vectors and host cells comprising such nucleic acids; compositions comprising such inhibitors, cells, and/or nucleic acids; methods  
5 of producing such inhibitors, nucleic acids, vectors, compositions, and cells; and methods of inducing, promoting, and/or enhancing a physiological response in a subject by administering to the subject an amount of such an inhibitor, nucleic acid, vector, host cell, and/or composition sufficient to induce such a physiological response.